

CLAIMS

What is claimed is:

1. An inductive component for mounting on a printed circuit board comprising:
 - a low profile body having spaced apart solder pads extending from the body for electrically and mechanically attaching the body to lands on the printed circuit board and defining an aperture extending through the body between the soldering pads;
 - a core having first and second flanged ends disposed in the aperture and extending from the body between the soldering pads;
 - a wire wound around the core wherein the wire has a first and second end and wherein the wire ends are connected to the pads; and
 - a film extending over at least a portion of the body and core and capable of securing the body and core to one another.
2. An inductive component in accordance with claim 1 wherein the film has a first side having an adhesive layer thereon for connecting the film to the body and core thereby connecting the body and core to one another, and a second side having a printable layer upon which indicia may be added.
3. An inductive component in accordance with claim 1 wherein the film is at least one of a polyimide film, a PEEK film, and a LCP film, capable of withstanding a wide temperature range.
4. An inductive component in accordance with claim 1 wherein the first flanged end of the core is disposed in the aperture of the body such that the first flanged end and the body create a generally planar top surface.

5. An inductive component in accordance with claim 4 wherein one of the first and second flanged ends is smaller in diameter than the other of the first and second flanged ends.

6. An inductive component in accordance with claim 5 wherein the first flanged end is smaller in diameter than the second flanged end.

7. An inductive component in accordance with claim 1 wherein the body has spaced apart legs extending therefrom, the legs being positioned such that the aperture extends through the body between the legs.

8. An inductive component in accordance with claim 7 wherein the solder pads are connected to the legs of the body for electrically and mechanically attaching the body to lands on the printed circuit board.

9. An inductive component in accordance with claim 1 wherein the component is a low profile component having a height of about 0.5mm to 2.0mm.

10. An inductive component in accordance with claim 1 wherein the body comprises a polygonal shaped base within which the core is at least partially disposed.

11. A method of making an inductive component having a base with a core disposed in an aperture therein, the method comprising:
inserting the core into the aperture of the base;
applying a film over at least a portion of the base and core, the film being capable of securing the base and core to one another.

12. A method according to claim 11 wherein the inductive component has spaced apart soldering pads connected to the base and a wire having first and second ends wound about the core, the method further comprising:

connecting the first wire end to one of the spaced apart solder pads and the second wire end to the other of the spaced apart solder pads for electrically and mechanically attaching the wire to the body of the component.